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## RAW SEQUENCE LISTING

DATE: 02/12/2002

PATENT APPLICATION: US/10/051,843

TIME: 12:05:14

Input Set : F:\AHP 98133 cip.txt

Output Set: N:\CRF3\02122002\J051843.raw

## SEQUENCE LISTING

ENTERED

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4 (1) GENERAL INFORMATION:
6   (i) APPLICANT: YOUNG, KATHLEEN H.
7       RHODES, KENNETH J.
9   (ii) TITLE OF INVENTION: METHODS FOR IDENTIFYING MODULATORS OF
10      N-TYPE ION CHANNEL INACTIVATION
12  (iii) NUMBER OF SEQUENCES: 23
14  (iv) CORRESPONDENCE ADDRESS:
15      (A) ADDRESSEE: AMERICAN HOME PRODUCTS CORPORATION
16      (B) STREET: FIVE GIRALDA FARMS -- ATTN. KAY E. BRADY
17      (C) CITY: MADISON
18      (D) STATE: NEW JERSEY
19      (E) COUNTRY: US
20      (F) ZIP: 07940
22  (v) COMPUTER READABLE FORM:
23      (A) MEDIUM TYPE: CD-R
24      (B) COMPUTER: IBM PC compatible
25      (C) OPERATING SYSTEM: WINDOWS NT
26      (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28  (vi) CURRENT APPLICATION DATA:
C--> 29      (A) APPLICATION NUMBER: US/10/051,843
C--> 30      (B) FILING DATE: 17-Jan-2002
31      (C) CLASSIFICATION:
33  (viii) ATTORNEY/AGENT INFORMATION:
34      (A) NAME: GAVIN T. BOGLE
35      (B) REGISTRATION NUMBER:
36      (C) REFERENCE/DOCKET NUMBER: AHP 98133 P1
38  (ix) TELECOMMUNICATION INFORMATION:
39      (A) TELEPHONE: (617) 665-8079
40      (B) TELEFAX: (617) 876-5851
44 (2) INFORMATION FOR SEQ ID NO: 1:
46   (i) SEQUENCE CHARACTERISTICS:
47       (A) LENGTH: 16 amino acids
48       (B) TYPE: amino acid
49       (C) STRANDEDNESS: not relevant
W--> 50       (D) TOPOLOGY: not relevant
52   (ii) MOLECULE TYPE: peptide
54   (vi) ORIGINAL SOURCE:
55       (A) ORGANISM: Homo sapiens
59   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
61       Gln Ile Leu Gly Gln Thr Leu Lys Ala Ser Met Arg Glu Leu Gly Leu
62       1         5         10         15
65 (2) INFORMATION FOR SEQ ID NO: 2:

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67      (i) SEQUENCE CHARACTERISTICS:
68          (A) LENGTH: 16 amino acids
69          (B) TYPE: amino acid
70          (C) STRANDEDNESS: not relevant
W--> 71      (D) TOPOLOGY: not relevant
73      (ii) MOLECULE TYPE: peptide
75      (vi) ORIGINAL SOURCE:
76          (A) ORGANISM: Homo sapiens
80      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
82      Gln Ile Leu Gly His Thr Leu Arg Ala Ser Met Arg Glu Leu Gly Leu
83      1       5       10      15
86 (2) INFORMATION FOR SEQ ID NO: 3:
88      (i) SEQUENCE CHARACTERISTICS:
89          (A) LENGTH: 48 base pairs
90          (B) TYPE: nucleic acid
91          (C) STRANDEDNESS: single
92          (D) TOPOLOGY: linear
94      (ii) MOLECULE TYPE: DNA (genomic)
96      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
98 GATCCTGGGC CAGACCCTCA AAGCTAGTAT GAGAGAGCTA GGGCTGCT
102 (2) INFORMATION FOR SEQ ID NO: 4:
104      (i) SEQUENCE CHARACTERISTICS:
105          (A) LENGTH: 48 base pairs
106          (B) TYPE: nucleic acid
107          (C) STRANDEDNESS: single
108          (D) TOPOLOGY: linear
110      (ii) MOLECULE TYPE: DNA (genomic)
112      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
114 GATCCTGGGC CACACCCTCA GAGCCAGCAT GCGGGAAGT GGCCTTCT
119 (2) INFORMATION FOR SEQ ID NO: 5:
121      (i) SEQUENCE CHARACTERISTICS:
122          (A) LENGTH: 30 amino acids
123          (B) TYPE: amino acid
124          (C) STRANDEDNESS: not relevant
W--> 125      (D) TOPOLOGY: not relevant
127      (ii) MOLECULE TYPE: peptide
129      (vi) ORIGINAL SOURCE:
130          (A) ORGANISM: Homo sapiens
134      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
136      Met Gln Val Ser Ile Ala Cys Thr Glu His Asn Leu Lys Ser Arg Asn
137      1       5       10      15
139      Gly Glu Asp Arg Leu Leu Ser Lys Gln Ser Ser Thr Ala Pro
140      20      25      30
142 (2) INFORMATION FOR SEQ ID NO: 6:
144      (i) SEQUENCE CHARACTERISTICS:
145          (A) LENGTH: 30 amino acids
146          (B) TYPE: amino acid
147          (C) STRANDEDNESS: not relevant
W--> 148      (D) TOPOLOGY: not relevant

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150      (ii) MOLECULE TYPE: peptide
152      (vi) ORIGINAL SOURCE:
153          (A) ORGANISM: Homo sapiens
157      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
159      Met Glu Val Ala Met Val Ser Ala Glu Ser Ser Gly Cys Asn Ser His
160          1             5             10             15
162      Met Pro Tyr Gly Tyr Ala Ala Gln Ala Arg Ala Arg Glu Arg
163          20             25             30
166 (2) INFORMATION FOR SEQ ID NO: 7:
168      (i) SEQUENCE CHARACTERISTICS:
169          (A) LENGTH: 90 base pairs
170          (B) TYPE: nucleic acid
171          (C) STRANDEDNESS: single
172          (D) TOPOLOGY: linear
174      (ii) MOLECULE TYPE: DNA (genomic)
176      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
178 ATGCAAGTCT CCATAGCCTG CACAGAGCAC AATTTGAAGA GTCGGAATGG TGAGGACCGA      60
180 CTTCTGAGCA AGCAGAGCTC CACCGCCCCC      90
185 (2) INFORMATION FOR SEQ ID NO: 8:
187      (i) SEQUENCE CHARACTERISTICS:
188          (A) LENGTH: 90 base pairs
189          (B) TYPE: nucleic acid
190          (C) STRANDEDNESS: single
191          (D) TOPOLOGY: linear
193      (ii) MOLECULE TYPE: DNA (genomic)
195      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
197 ATGGAGGTTG CAATGGTGAG TGCGGAGAGC TCAGGGTGCA ACAGTCACAT GCCTTATGGT      60
199 TATGCTGCCC AGGCCCGGGC CCGGGAGCGG      90
202 (2) INFORMATION FOR SEQ ID NO: 9:
204      (i) SEQUENCE CHARACTERISTICS:
205          (A) LENGTH: 59 base pairs
206          (B) TYPE: nucleic acid
207          (C) STRANDEDNESS: single
208          (D) TOPOLOGY: linear
210      (ii) MOLECULE TYPE: DNA (genomic)
213      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
215 CATGGAGCAG ATCCTGGGCC AGACCCTCAA AGCTAGTATG AGAGAGCTAG GGCTGTAAG      59
218 (2) INFORMATION FOR SEQ ID NO: 10:
220      (i) SEQUENCE CHARACTERISTICS:
221          (A) LENGTH: 59 base pairs
222          (B) TYPE: nucleic acid
223          (C) STRANDEDNESS: single
224          (D) TOPOLOGY: linear
226      (ii) MOLECULE TYPE: DNA (genomic)
228      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
230 GATCCTTACA GCCCTAGCTC TCTCATACTA GCTTTGAGGG TCTGGCCCAG GATCTGCTC      59
233 (2) INFORMATION FOR SEQ ID NO: 11:
235      (i) SEQUENCE CHARACTERISTICS:
236          (A) LENGTH: 55 base pairs

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237         (B) TYPE: nucleic acid
238         (C) STRANDEDNESS: single
239         (D) TOPOLOGY: linear
241         (ii) MOLECULE TYPE: DNA (genomic)
245         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
247 CCGAATTCGA CATATGAAAA TGCAAGTCTC CATAGCCTGC ACAGAGCACA ATTTG      55
250 (2) INFORMATION FOR SEQ ID NO: 12:
252         (i) SEQUENCE CHARACTERISTICS:
253             (A) LENGTH: 42 base pairs
254             (B) TYPE: nucleic acid
255             (C) STRANDEDNESS: single
256             (D) TOPOLOGY: linear
258         (ii) MOLECULE TYPE: DNA (genomic)
260         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
262 ACGGATCCCC GAATTCCATT ATGATCTATA GTCCTTCTTG CT      42
265 (2) INFORMATION FOR SEQ ID NO: 13:
267         (i) SEQUENCE CHARACTERISTICS:
268             (A) LENGTH: 45 base pairs
269             (B) TYPE: nucleic acid
270             (C) STRANDEDNESS: single
271             (D) TOPOLOGY: linear
273         (ii) MOLECULE TYPE: DNA (genomic)
275         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
277 ACGGATCCCC GAATTCCATT AATCTGAAAT TTGACCTCCA AATGT      45
280 (2) INFORMATION FOR SEQ ID NO: 14:
282         (i) SEQUENCE CHARACTERISTICS:
283             (A) LENGTH: 59 base pairs
284             (B) TYPE: nucleic acid
285             (C) STRANDEDNESS: single
286             (D) TOPOLOGY: linear
288         (ii) MOLECULE TYPE: DNA (genomic)
290         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
292 CATGGAGCAG ATCCTGGGCC ACACCCTGAG AGCCAGCATG CGGGAAGTGG GCCTTTAAG      59
295 (2) INFORMATION FOR SEQ ID NO: 15:
297         (i) SEQUENCE CHARACTERISTICS:
298             (A) LENGTH: 59 base pairs
299             (B) TYPE: nucleic acid
300             (C) STRANDEDNESS: single
301             (D) TOPOLOGY: linear
303         (ii) MOLECULE TYPE: DNA (genomic)
305         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
307 GATCCTTAAA GGCCAGTTC CGGCATGCTG GCTCTGAGGG TGTGGCCCAG GATCTGCTC      59
310 (2) INFORMATION FOR SEQ ID NO: 16:
312         (i) SEQUENCE CHARACTERISTICS:
313             (A) LENGTH: 60 base pairs
314             (B) TYPE: nucleic acid
315             (C) STRANDEDNESS: single
316             (D) TOPOLOGY: linear
318         (ii) MOLECULE TYPE: DNA (genomic)

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Input Set : F:\AHP 98133 cip.txt

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320      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
322 CGAATTCATA TCGGATCCG TAGAATGGAG GTTGCAATGG TGAGTGC GGA GAGCTCAGGG      60
325 (2) INFORMATION FOR SEQ ID NO: 17:
327      (i) SEQUENCE CHARACTERISTICS:
328          (A) LENGTH: 41 base pairs
329          (B) TYPE: nucleic acid
330          (C) STRANDEDNESS: single
331          (D) TOPOLOGY: linear
333      (ii) MOLECULE TYPE: DNA (genomic)
335      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
337 GGTTCGACGAA TTCGTTACCT TGCAGGATCG GAGCTCTCGT G      41
340 (2) INFORMATION FOR SEQ ID NO: 18:
342      (i) SEQUENCE CHARACTERISTICS:
343          (A) LENGTH: 59 base pairs
344          (B) TYPE: nucleic acid
345          (C) STRANDEDNESS: single
346          (D) TOPOLOGY: linear
348      (ii) MOLECULE TYPE: DNA (genomic)
350      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
352 CATGGAGCAG ATCCTGGGCC ACACCCTCAG AGCCAGCATG CGGCAACTGG GCCTTTAAG      59
355 (2) INFORMATION FOR SEQ ID NO: 19:
357      (i) SEQUENCE CHARACTERISTICS:
358          (A) LENGTH: 59 base pairs
359          (B) TYPE: nucleic acid
360          (C) STRANDEDNESS: single
361          (D) TOPOLOGY: linear
363      (ii) MOLECULE TYPE: DNA (genomic)
365      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
367 GATCCTTAAA GGCCAGTTG CCGCATGCTG GCTCTGAGGG TGTGGCCCAG GATCTGCTC      59
370 (2) INFORMATION FOR SEQ ID NO: 20:
372      (i) SEQUENCE CHARACTERISTICS:
373          (A) LENGTH: 59 base pairs
374          (B) TYPE: nucleic acid
375          (C) STRANDEDNESS: single
376          (D) TOPOLOGY: linear
378      (ii) MOLECULE TYPE: DNA (genomic)
380      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
382 AATTCCAGAT CCTGGGCCAG ACCCTCAAAG CTAGTATGAG AGAGCTAGGG CTGTAAGCC      59
385 (2) INFORMATION FOR SEQ ID NO: 21:
387      (i) SEQUENCE CHARACTERISTICS:
388          (A) LENGTH: 59 base pairs
389          (B) TYPE: nucleic acid
390          (C) STRANDEDNESS: single
391          (D) TOPOLOGY: linear
393      (ii) MOLECULE TYPE: DNA (genomic)
395      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
397 TCGAGGCTTA CAGCCCTAGC TCTCTCATAC TAGCTTTGAG GGTCTGGCCC AGGATCTGG      59
400 (2) INFORMATION FOR SEQ ID NO: 22:
402      (i) SEQUENCE CHARACTERISTICS:

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/051,843

DATE: 02/12/2002

TIME: 12:05:15

Input Set : F:\AHP 98133 cip.txt

Output Set: N:\CRF3\02122002\J051843.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:50 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=1  
L:71 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=2  
L:125 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=5  
L:148 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=6